



Fort George G. Meade



Manor View Dump Site Non-time Critical Removal Action Update

Restoration Advisory Board Meeting
July 19, 2012

Bob White - ARCADIS



Agenda



- A brief summary
- Site status
- Work completed since the last RAB
- Notable discussion
- Future activities








Summary

Manor View Dump Site



LEGEND:

-  SITE BOUNDARY
-  METHANE GENERATING WASTE FOOTPRINT
-  DEBRIS/FILL FOOTPRINT

0 200 400
Feet
GRAPHIC SCALE



ARMY STRONG.



Summary



Three Major Phases of Work



1. Site Controls
Started:
2/13/2012



2. Excavation,
Transportation,
Disposal, and Backfill
Started:
3/22/2012



3. Site Restoration
Started:
7/16/2012

← Ongoing Air Monitoring, Methane Monitoring, Traffic Control, Dust Control, Odor Control, and Noise Control →



ARMY STRONG.™



Project Status



- Completed
 - i. Excavation and disposal of waste
 - ii. Backfill of the excavation
 - iii. Placement of top soil
 - iv. Grading of the Site
- Ongoing Site Restoration
 - i. Stabilizing bare soils
 - ii. Conducting final "As-Built" survey
 - iii. Retrofitting the soil vapor extraction (SVE) system to flush mounts



ARMY STRONG.™

Photographic Time Lapse (1 of 4)



View North, Site Preparation Phase
(March 20, 2012)

Photographic Time Lapse (2 of 4)



View North, Waste Excavation and Load-out
(May 15, 2012)

Photographic Time Lapse (3 of 4)



View North, Overburden Management and Backfill Placement
(June 12, 2012)

Photographic Time Lapse (4 of 4)



View Northwest, Top-Soil Placement and Grading
(July 17, 2012)



Work Completed Since the Last RAB



Left: View north depicting load-out , backfilling, and grading



Right: View northwest showing backfill and witness layer placement



ARMY STRONG.



Work Completed Since the Last RAB (Site Grading)



Left: View northwest showing area prior to grading



Right: View north-northeast showing complete grading and top soil placement



ARMY STRONG.™



Notable Discussion



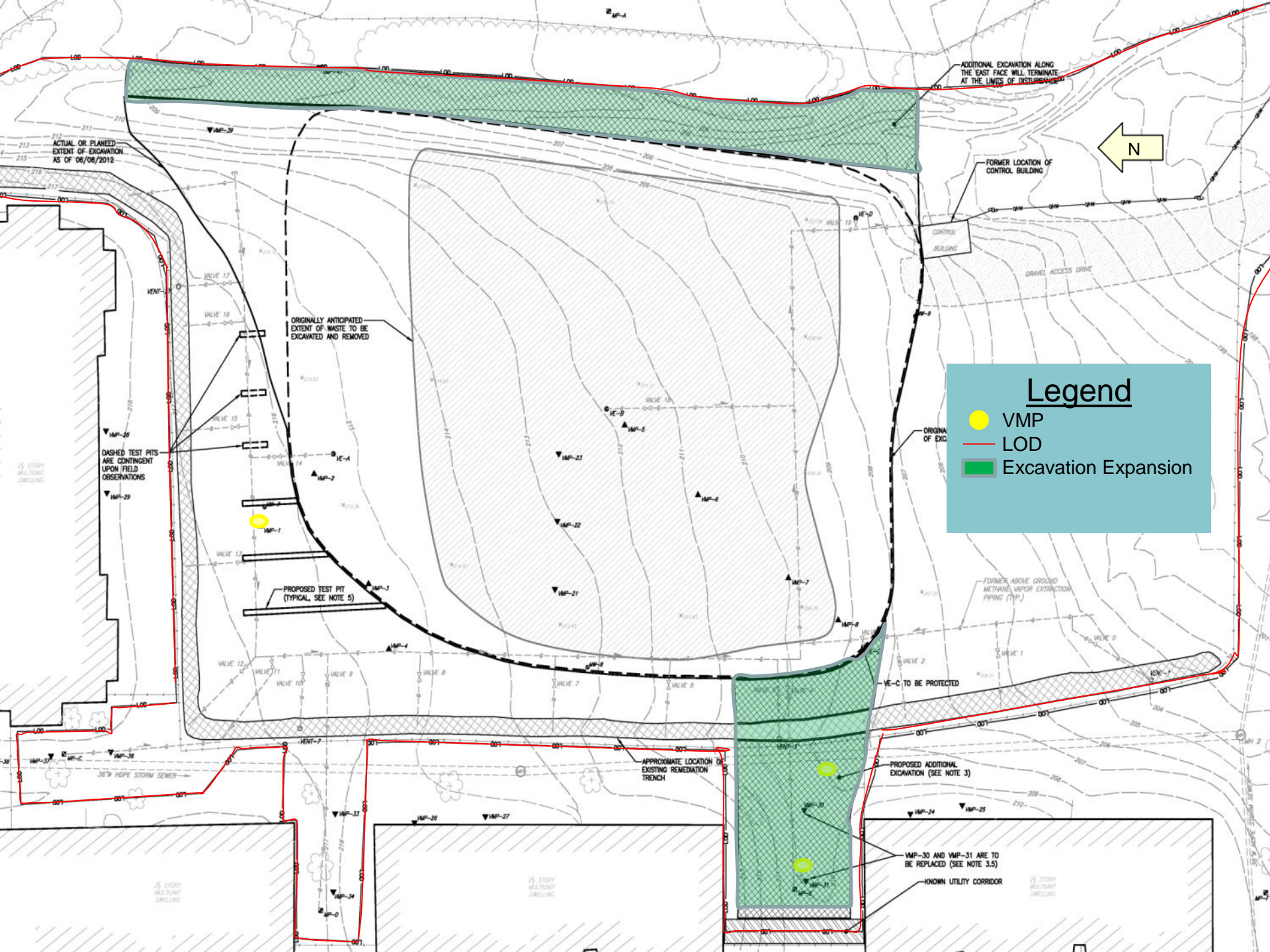
- Anticipated versus actual

Activity	Anticipated	Actual
Waste Disposal	12,000 tons	25,000 tons
Trucking of Waste	760 Loads	1,100 + Loads
Trucks Per Day	--	20-30 trucks/day
Excavation/Backfill Duration	9 Weeks	16 Weeks

- Additional excavation conducted beyond originally planned excavation extent
 - i. Why
 - i. Field observations
 - ii. Sporadic methane detections
 - ii. Three locations
 -) East Limit of Disturbance (LOD)
 -) Vapor Monitoring Points (VMP) 30 and 31
 -) VMP-1



ARMY STRONG.





Notable Discussion (East LOD)



Excavation extended to the east LOD based upon field observations.

- Top Left: View looking east at Methane generating waste (MGW) at planned excavation limit
- Bottom Left: View Looking east at C&D debris after excavation to east LOD
- Bottom Right: close up of C&D debris



ARMY STRONG.



Notable Discussion (VMP 30/31)



Excavation within VMP 30/31 due to sporadic methane detections.

- Top Left: Preparation for excavation
- Bottom Left: Excavation to yellow sand, soil disposed of at King George Landfill, VA
- Bottom Right: Backfill with borrow soils





Air Monitoring



1 of 4 monitoring stations deployed daily



Typical Daily Results

Project Location : FGGM 93-Manor/View Dump Site				Project # : GP09MEAD.MANO.GH002			
Date: 5/11/2012				Sampling Personnel:		M.W.	

Monitoring Program Includes:

- Volatile Organic Compounds, dust, odor, methane and noise
- Reduced sampling regimen to dust only July 6, 2012 (concurrent with completion of waste excavation/load-out)
- Results presented to Army weekly
- **No action levels have been exceeded**





Project Conclusion



Activity	Anticipated Date
Complete Site restoration and Site Stabilization	7/20/2012
Implement post removal soil gas monitoring	7/23/2012
Restart soil vapor extraction system and purge for two weeks	7/23/2012
Follow up to Site stabilization and revegetation	8/15/2012
Prepare and submit Interim Remedial Action Report	8/20/2012



Points of Contact



U.S. Army Garrison Fort George G. Meade
Directorate of Public Works-Environmental Division
2212 Chisholm Avenue, Suite 5115
Fort Meade, Maryland 20755-7068

- Michael “Mick” Butler
 - Environmental Division Chief
 - 301-677-9188
 - Michael.p.butler50.civ@mail.mil
- Paul Fluck, PG, REP
 - Environmental Restoration Manager
 - 301-677-9365
 - paul.v.fluck.civ@mail.mil
- Denise Tegtmeyer, PE
 - Senior Project Manager
 - 301-677-9559
 - denise.a.tegtmeyer.ctr@mail.mil



ARMY STRONG.



Table of Acronyms



Acronym	Meaning
C&D	Construction and Demolition (i.e., usually referring to a type of waste)
LOD	Limit of Disturbance
MGW	Methane Generating Waste
RAB	Restoration Advisory Board
SVE	Soil Vapor Extraction System
VMP	Vapor Monitoring Point

